PATENT COOPERATION TREATY

From th		SAL SEARCHI	NG AUTHOR	ITY.		ANS	
To:						PCT PCT	
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						RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
						(PCT Rule 43bis.1)	
					Date of mailing (day/month/year)	See form PCT/ISA/210	
Applica	int's or a	gent's tile referen	ce		FOR FURTHER	ACTION	
	436					See paragraph 2 below	
		plication No. 2005/000	601	International filing date (21.01.2005	(day/month/year)	Priority date (day/month/year) 22.01.2004	
			•	n national classification an	d IPC		
HOI	.F 30,	/12, H01	F 2 / / 3 6				
Applies							
ERA	AG						
	-			•			
I.	This	pinion contains i	ndications rela	ting to the following item	s:		
	\boxtimes	Box No. I	Basis of the	opinion			
	\boxtimes	Box No. II	Priority				
		Box No. III	Non-establi	shment of opinion with re	gard to novelty, inven	tive step and industrial applicability	
		Box No. IV	Lack of unit	ty of invention			
	\boxtimes	Box No. V		tatement under Rule 43 <i>bis</i> y: citations and explanatio		novelty, inventive step or industrial stement	
	Ш	Box No. VI	Certain doc	uments cited			
		Box No. VII	Certain defe	ects in the international ap	plication		
		Box No. VIII	Certain obse	ervations on the internatio	nal application		
2.	FUR'	THER ACTION					
	ill be considered to be a written opinion of oply where the applicant chooses an Authority of reau under Rule $66.1bis(b)$ that written opinions						
this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the I written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For fu	irther options, see	Form PCT/IS	A/220.			
3.	For fu	irther details, see	notes to Form	PCT/ISA/220.			
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Name a	and mail	ing address of the	ISAVEP		Authorized officer		
l					T. 1. 1. 1.		

International application No.
PCT/EP2005/000601

Box	c No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
	-	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
		Tunnanct subsequency to this realistic for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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Box No. II Priority				
1. The following document has not yet been furnished: copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)). translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)). Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established the assumption that the relevant date in the claimed priority date.	t on			
2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found inv (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be relevant date.	alid the			
Additional observations, if necessary: The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis1 and 64.1) is the claimed priority date.				

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Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement						
1.	Statemen	nt						
	Nove	Claims 1-11 Claims	YES NO					
	Inven	Claims 1-11	_ YES					
	Indus	striał applicability (IA) Claims 1–11 Claims	YES NO					
2.	Citations	s and explanations:						
	1	Reference is made to the following documents:						
		D1: DE 199 27 820 C1 (BREMI AUTO-ELEKTRIK ERNST						
		BREMICKER GMBH) 6 July 2000 (2000-07-06)						
		D2: US-A-3 436 704 (AUGUST I. KETO <i>ET AL</i> .) 1 April						
		1969 (1969-04-01)						
İ								
į	2	The present application does not meet the						
		requirements of PCT Article 33(1) because the						
		subject matter of claim 1 does not involve an						
		inventive step within the meaning of PCT Article						
		33(3).						
		Document D1 is considered to be the closest prior						
		art to the subject matter of claim 1. It discloses						
		(the references between parentheses relate to said						
		document):						
		ignition coil for an internal combustion engine						
		having an, in particular cylindrical, primary coil						
		body (2) which carries a primary winding, a low-						
		voltage connection region (12) for connecting the						
-		primary winding to a low-voltage, a secondary						
		winding, which is inductively coupled to the primary						

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

winding and arranged on a, in particular cylindrical, secondary coil body (3), for providing a high voltage for a spark plug of the internal combustion engine, with the primary coil element (2) and the secondary coil element (3) being arranged concentrically with respect to one another, and a high-voltage connection region (7) in which the secondary winding makes contact with the spark plug, with an electrically conductive and substantially cylindrical layer having mechanical damping properties being arranged within an annular space which is bounded by the outer of the two windings.

The subject matter of claim 1 therefore differs from the known D1 in that:

the electrically conductive layer is in the form of a sandwich structure comprising at least two sublayers with an interposed intermediate layer having mechanical damping properties.

The problem addressed by the present invention can therefore be considered that of producing an ignition coil as per the prior art, with "the electrical screening and mechanical strength of the ignition coil being improved further".

However, these features of these claims have already been used for the same purpose in a similar transformer, cf. document D2, in particular column 3, line 66 - column 4, line 44. If a person skilled in the art wished to achieve the same aim in an

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

ignition coil as per document D1, he could easily apply these features to like effect to the subject matter of D1. In this way he would arrive at an ignition coil as per claim 1 without thereby being inventive.

The subject matter of claim 1 therefore cannot be considered to involve an inventive step.

Dependent claims 2-22 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step. The reasons are as follows:

these claims are either known from the cited documents (claims 2-4, 7) or relate to minor structural modifications to the ignition coil as per claim 1 of the kind that a person skilled in the art routinely makes on the basis of familiar considerations, especially since the resulting advantages are readily foreseeable (claims 5, 6, 8-11),

cf.

claims 2, 4, 7: D2 claim 3: D1

Accordingly, the subject matter of claims 2-11 does not involve an inventive step.

The subject matter of the application relates to an ignition coil for an internal combustion engine, and this is obviously industrially applicable (PCT

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Article 33(4)).